ROSS AIRCRAFT COMPANY

MODELS: Ross RS-1 and RS-2L

T.C. NUMBER: T.C. 732

I - MODEL RS-1, 2 POLM (Approved 8/28/40)

Engine Continental A-40-5

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Fuel
                                           73 minimum octane aviation gasoline
                                           For all operations, 2575 rpm (40 hp)
Level flight or climb - 90 mph True Ind.
Glide or dive - 122 mph True Ind.
      Engine limits
      Airspeed limits
                                           (+20.2) to (+24.8)
940 lbs.
      C.G. range
      Maximum weight
     No. seats
Maximum baggage
                                           2 (+17, +47) (See NOTE 2.)
16 lbs. (-20)
      Fuel capacity
                                           9 gallons (-8)
1 gallon (-33)
      Cil capacity
      Serial numbers eligible
                                           1 and up
      Required equipment
                                           1, 102, 201 and 202
II - MODEL RS-2L, 2 POLM (Approved 9/13/48)
(Same as Model RS-1 except for revised engine mount per Rose Drawing No. 10058 Rev. A, change in engine, front lift strut modification per Rose Drawing No.
10037 Rev. C and stabilizer assembly, modification per Rose Drawing No. 10018
Rev. E.)
                                          Lycoming 0-145-B3 (See also item 103.) 73 minimum octane aviation gasoline
      Engine
      Fuel
                                          For all operations, 2550 rpm (65 hp)
Level flight or climb - 100 mph True Ind.
Glide or dive - 122 mph True Ind.
(+20.2) to (+24.8)
      Engine limits
     Airspeed limits (See NOTE 3)
      C.G. range
                                           995 lbs.
      Maximum weight
     No. seats
Maximum baggage
                                          2 (+17, +47) (See NOTE 2)
16 lbs. (-20)
12 gallons (-7)
5 quarts (-32)
Elevator 27 degrees up
      Fuel capacity
      Cil capacity
      Control surface
                                                                                         26 degrees down
        movement
                                           Aileron
                                                            20 degrees up
                                                                                         20 degrees down
                                                           30 degrees left
                                          Rudder
                                                                                         30 degrees right
                                          1 and up
2, 102, 201, and 204
      Serial numbers eligible
      Required equipment
SPECIFICATIONS PERTINENT TO ALL MODELS:
                                          L.E. of wing
Level top longerons between cockpits
Type Certificate No. 732 (CAR 4a)
     Datum
      Leveling means
      Certification basis
      Production basis
                                           None (See NOTE A)
      Export eligibility
                                           Eligible for export as follows, subject to provisions
                                             of MOP 2-4:
                                              (a) Canada
                                                    - Landplane - eligible
- Skiplane - not eligible
                                              (b) All other countries except Australia, Great
                                                    Britain and New Zealand.
      EQUIPMENT:
      Propellers and Propeller Accessories
                                                                       RS-1
8 lbs. (+44)
                                                                                                   RS-2L

    Propeller - Fixed pitch wood
(less hub) rated for required
hp and rpm on the following

                    limits:
                       Static rpm at maximum permissible
                       throttle setting -
                    Not over 2450 rpm
Not under 2275 rpm
No additional tolerance permitted.
                    Diameter -
                   Not over 71 inches
Not under 67 inches
Propeller - Sensenich 70LY-36 or
any other fixed pitch wood
propeller rated for required hp
                                                                                                      9 1bs. (+45)
                    and rpm on the following limits:
                       Static rpm at maximum permissible
                       throttle setting -
                         Not over 2300 rpm
Not under 2200 rpm
                    No additional tolerance permitted.
                    Diameter -
                       Not over 70 inches
                       Not under 68 inches
      Engine and Engine Accessories - Fuel and Oil System
            101. (Cmitted)
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102.	Carburetor air heater	2 lbs.(-32)	2 lbs. (-32)
103.	Engine - Lycoming O-145-B2		-3 lbs. (-25)
Landing G	ear (See NOTE 4)		
201.	Two main wheels assemblies, 7.00-4, Type III, Firestone Nodels 2AV or 2AVT with		
	4-ply rating tires.	24 lbs. (+9)	24 1bs. (+9)
202.	Tail skid	3 lbs. (+183)	
203.	Two main wheel assemblies, 16x7-3, E.L.P. Type, Goodyear Model 8LMBA with 4-ply rating	, ,	
	16x7-3 tires.	+3 lbs.(+9)	
204.	Steerable tail wheel (Ort- Lancaster Drawings 10056 and 10057)	4 lbs.(+189)	4 lbs. (+189)
205.		, 2337, 139,	. 2000 (111)
	with 6.00-6, 4-ply rating tires		+8 lbs. (+9)
	eous (not listed above)		
601.	Cockpit canopy		14 lbs. (+40)

- NOTE A. Prior to original certification each aircraft must satisfactorily pass:

 An inspection for workmanship, materials, and conformity before any covering, metal priming or final finish is applied. All woodwork may be varnished.
 - (b) A final inspection of the completed aircraft.(c) A check of the flight characteristics.
- NOTE 1. Current weight and balance report including list of equipment included in certificated weight empty, and loading instructions when necessary, must be in each aircraft at the time of original certification and at all times thereafter (except in the case of air carrier operators having an approved weight control system).
- NOTE 2. Placard front cockpit as follows: "Solo flying from rear seat only."
 "4-Ply rating tires - 13 lbs. pressure required."
- NOTE 3. For airplane serial number 1 of Model RS-2L, the following placard must be displayed on the instrument panel in full view of the pilot: "Do not exceed 90 mph Indicated for Level Flight or Climb." This placard may be removed provided the front list strut is modified per Rose Drawing No. 10037 Rev. C and the stabilizer assembly is modified per Rose Drawing No. 10018 Rev. E.